

APPENDIX L: SUPPLEMENTAL

***BIOLOGICAL REPORTS
SUPPLEMENTAL MEMORANDUM***



ANALYTICAL ENVIRONMENTAL SERVICES

TECHNICAL MEMORANDUM

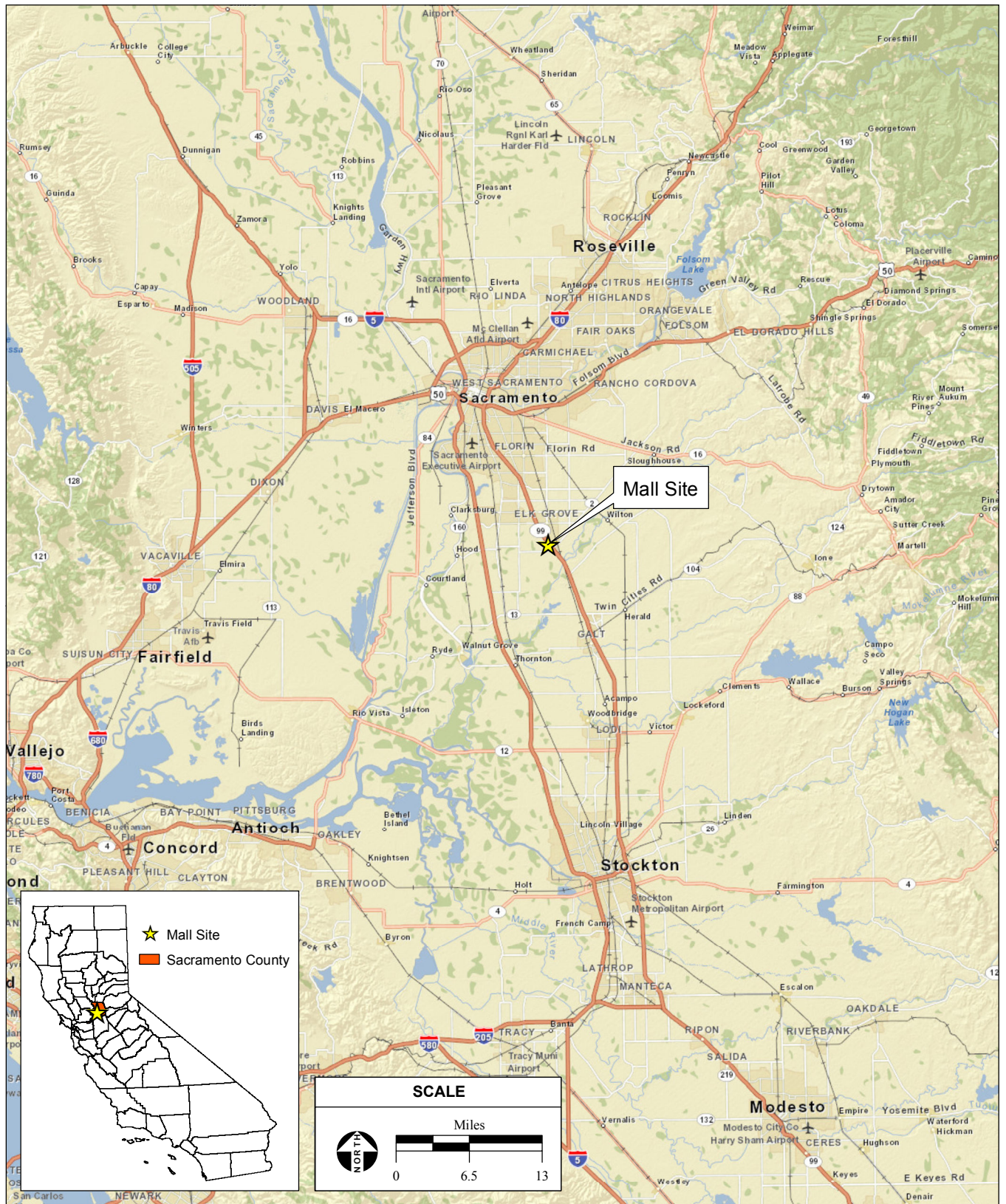
DATE: September 14, 2016
TO: David Zweig, P.E.
FROM: Kassandra Dickerson, AES Biologist
SUBJECT: Supplemental Biological Resources Assessment for Additional Acreage at the Elk Grove Mall Site, Wilton Rancheria Casino Project

BACKGROUND

The Wilton Rancheria of California (Tribe) is a federally recognized Indian Tribe with approximately 700 members. An Environmental Impact Statement (EIS) is being prepared pursuant to the National Environmental Policy Act (NEPA) to address the environmental effects of taking land into Federal trust for the Tribe to conduct gaming (Proposed Action). There are three alternative site locations under consideration for the Wilton Rancheria Casino Project, including the Elk Grove Mall site (Alternative F in the EIS). The original Elk Grove Mall site consisted of approximately 28 acres, as stated in the Draft EIS. However, 8 acres has been added to the Elk Grove Mall site, for a total of approximately 36 acres, as shown in the Final EIS. The site has previously been graded, partially paved, and built upon. However, due to economic conditions the site has been left unused for the past decade. A general biological survey and botanical survey of the original 28-acre Elk Grove Mall site was conducted on April 7, 2014, with a follow-up visit on August 15, 2014. Biological information was obtained, prior to the 2014 surveys, from various databases and sources, as listed in Section 3.5.4 of the EIS.

INTRODUCTION

This supplemental Biological Resources Assessment incorporates the additional acreage at the Elk Grove Mall site that was not previously assessed in the Alternative F of the Draft EIS. The 36-acre site (inclusive of the additional acreage) on Promenade Parkway, identified by Sacramento County Assessor's Parcel Number (APN) 1341010001, is located just west of Highway 99, north of Kammerer Road, and east of Promenade Parkway south of the City of Elk Grove in Sacramento County, California (**Figure 1**). The purpose of this assessment is to identify biological resources that may be present on the additional acreage that could be affected by future uses and/or the acceptance of the property into federal trust. This memorandum documents the results of the additional database searches and biological surveys (conducted on March 1 and May 23, 2016) at the site. This memorandum describes survey methodologies and results and provides recommendations consistent with protective measures for biological resources specified by federal and state regulatory agencies.



SOURCE: ESRI Data, 2014; AES, 3/4/2016

Wilton Rancheria Fee-to-Trust and Casino Tech Memo / 212544 ■

Figure 1
Regional Site and Vicinity

SITE DESCRIPTION

The entire 36-acre site consists of graded, paved/disturbed areas, parking areas, existing commercial buildings, and nonnative grassland (**Figure 2**). The property has a flat topography and an average elevation of 42 feet above mean sea level. Regional access is provided by Highway 99 which runs in a north-south direction approximately 75 feet from the property's eastern edge. Local access to the property is provided by Promenade Parkway, a four-lane paved road that runs along the west border of the property from where it begins at Grantline Road and runs parallel to Highway 99.

METHODOLOGY

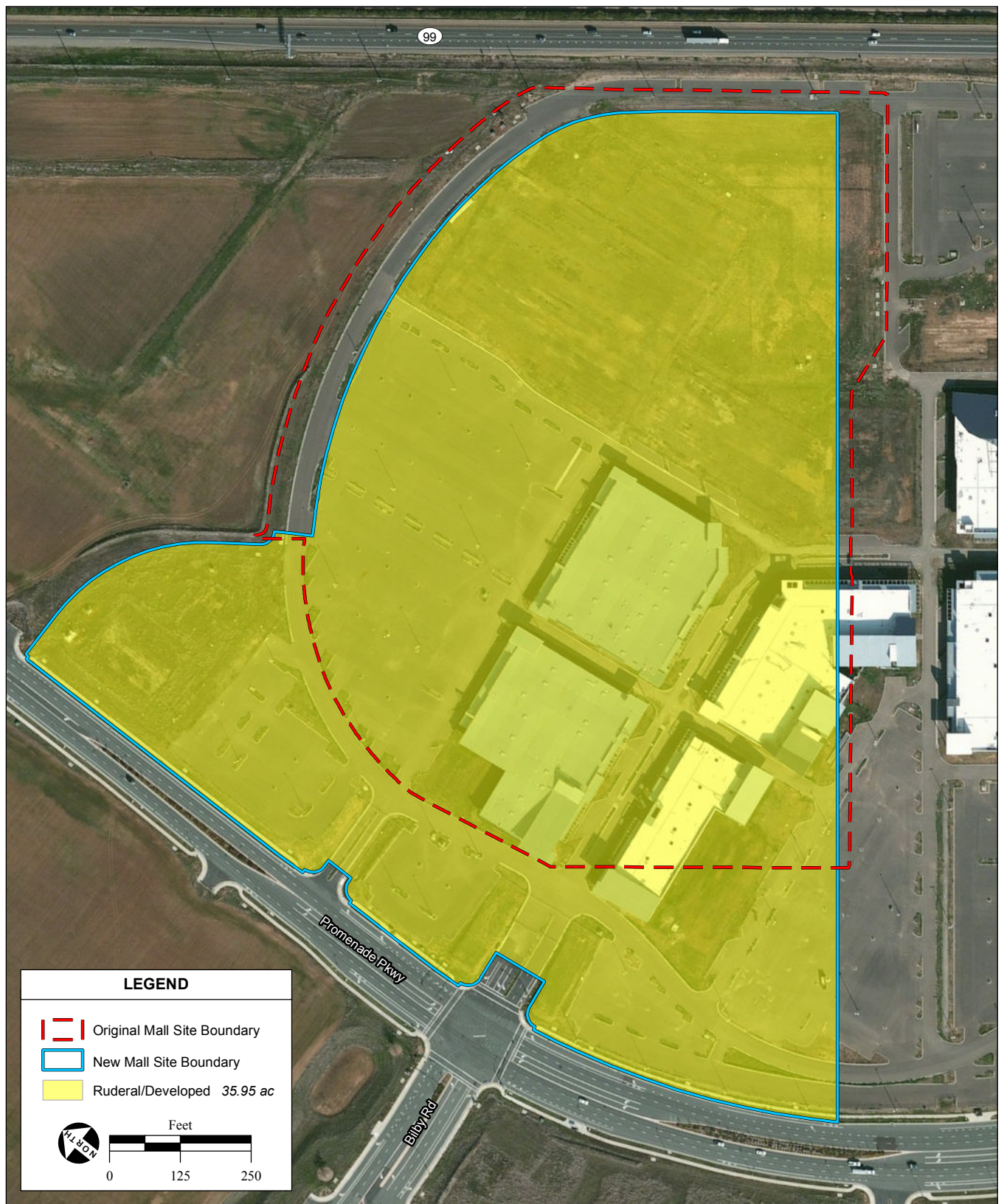
PRELIMINARY DATA GATHERING AND LITERATURE REVIEW

Prior to conducting the biological surveys, information was obtained from the following sources:

- USFWS list, updated March 3, 2016, of federally listed special-status species with the potential to occur on the Corning, CA quad (USFWS, 2016a) (**Attachment A**);
- California Natural Diversity Database (CNDDB) query, dated September 14, 2016, of State and federally listed special-status species known to occur within a nine quadrangle radius of the project site (CDFW, 2016) (**Attachment B**);
- California Native Plant Society query, updated April 12, 2016, of State and federally listed special-status plant species known to occur within a nine quadrangle radius of the project site (**Attachment C**);
- National Wetlands Inventory map of wetland features in the vicinity of the study area (USFWS, 2016b);
- USFWS Critical Habitat for Threatened and Endangered Species, updated April 12, 2016.

FIELD SURVEYS

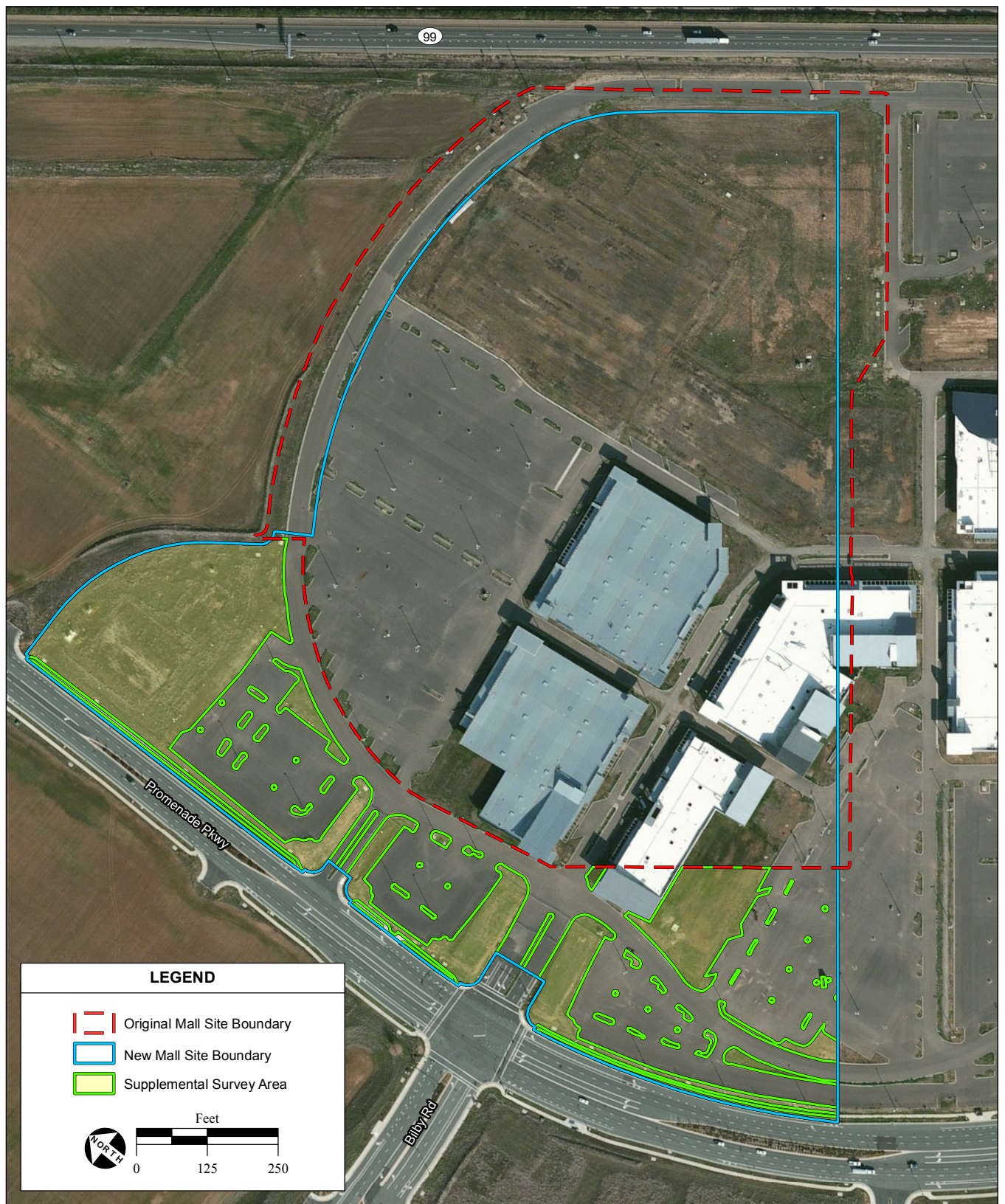
AES biologist Kassandra Dickerson conducted a Biological Resources Assessment survey of the new survey area (depicted on **Figure 3**) on March 1, 2016, and AES biologist Kaitlan Alonzo conducted a second survey on May 23, 2016. The objective of the surveys was to identify habitat types on the additional acreage and to determine if any special-status species are present. To date, the entire Elk Grove Mall site and adjacent habitat has been surveyed for special-status species that could potentially be affected by Alternative F, as evaluated in the EIS. Each survey consisted of pedestrian transects specifically designed to ensure all habitat types were surveyed.



SOURCE: USFWS National Wetlands Inventory, 6/1984;
USDA aerial photograph, 6/21/2014; ESRI Data, 2016; AES, 5/24/2016

Wilton Rancheria Fee-to-Trust and Casino Tech Memo / 212544 ■

Figure 2
Aerial Photograph with Habitat Types



SOURCE: USDA aerial photograph, 6/21/2014; ESRI Data, 2016; AES, 9/15/2016

Wilton Rancheria Fee-to-Trust and Casino Tech Memo / 212544 ■

Figure 3
Supplemental Survey Area

ENVIRONMENTAL SETTING

The majority of the Elk Grove Mall site consists of ruderal/developed habitat that has been graded and paved. There are four buildings located on the southern portion of site. The eastern portion of the site is open, graded, and unpaved. The site topography is primarily flat with some small sloping in the southwest corner and near the center. The slopes in the southwest portion of the site are gentle with changes of elevation between 1 and 2 feet. Near the center of the site, small slopes of 0 to 3 percent are noticeable that slope down towards the edges of the property likely graded for run-off. No trees are located on the property and grass species are scattered in the planter boxes that have not been managed. The additional acreage partially consists of dry nonnative grassland that lies just west along a section of the existing parking lot and just east of West Stockton Blvd. There are approximately 4 well-water heads scattered around this portion of the site.

RESULTS AND RECCOMENDATIONS

Preliminary data gathering and literature review determined that four listed plants, two listed amphibian, two listed bird, three listed fish, three listed invertebrates, and one listed reptile have the potential to occur in the vicinity of the Elk Grove Mall site (see **Attachment D** for full list including habitat requirements). However, after performing the habitat assessment and field survey, AES biologists determined that no portion of the approximately 36-acre site support any of these species due to a lack of suitable habitat which includes open water, wetlands, grasslands, or riparian habitats. The majority of habitat present on the site was developed, specifically graded and paved, or nonnative grassland. Therefore, no significant biological resources would be affected by Alternative F or the addition of approximately 8 acres to Alternative F, as described in the EIS.

REFERENCES

CDFW, 2016. RareFind 5, California Natural Diversity Database (CNDDB). Quads: Elk Grove, CA. Accessed on September 14, 2016.

California Native Plant Society (CNPS), 2016. Inventory of Rare and Endangered Plants (online edition, v8-02). California Native Plant Society. Quads: Elk Grove, CA. Available online at: <http://www.cnps.org/inventory>. Accessed on April 12, 2016.

USFWS, 2016. Sacramento Fish and Wildlife Office, Endangered Species Program. Available online at: <http://ecos.fws.gov/ipac/>. Accessed on March 3, 2016.

Attachment A

Wilton Rancheria Mall Site

IPaC Trust Resource Report

Generated March 01, 2016 03:41 PM MST, IPaC v2.3.2

This report is for informational purposes only and should not be used for planning or analyzing project level impacts. For project reviews that require U.S. Fish & Wildlife Service review or concurrence, please return to the IPaC website and request an official species list from the Regulatory Documents page.



US Fish & Wildlife Service

IPaC Trust Resource Report



NAME

Wilton Rancheria Mall Site

LOCATION

Sacramento County, California

IPAC LINK

<https://ecos.fws.gov/ipac/project/Y6RYC-P2UDR-BXXOU-D2EMO-36WPXA>



U.S. Fish & Wildlife Contact Information

Trust resources in this location are managed by:

Sacramento Fish And Wildlife Office

Federal Building

2800 Cottage Way, Room W-2605

Sacramento, CA 95825-1846

(916) 414-6600

Endangered Species

Proposed, candidate, threatened, and endangered species are managed by the [Endangered Species Program](#) of the U.S. Fish & Wildlife Service.

This USFWS trust resource report is for informational purposes only and should not be used for planning or analyzing project level impacts.

For project evaluations that require FWS concurrence/review, please return to the IPaC website and request an official species list from the Regulatory Documents section.

[Section 7](#) of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency.

A letter from the local office and a species list which fulfills this requirement can only be obtained by requesting an official species list from the Regulatory Documents section in IPaC.

The list of species below are those that may occur or could potentially be affected by activities in this location:

Amphibians

California Red-legged Frog *Rana draytonii* Threatened

CRITICAL HABITAT

There is **final** critical habitat designated for this species.

https://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=D02D

California Tiger Salamander *Ambystoma californiense* Threatened

CRITICAL HABITAT

There is **final** critical habitat designated for this species.

https://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=D01T

Crustaceans

Vernal Pool Fairy Shrimp *Branchinecta lynchi* Threatened

CRITICAL HABITAT

There is **final** critical habitat designated for this species.

https://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=K03G

Vernal Pool Tadpole Shrimp *Lepidurus packardii* Endangered

CRITICAL HABITAT

There is **final** critical habitat designated for this species.

https://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=K048

Fishes

Delta Smelt *Hypomesus transpacificus* Threatened

CRITICAL HABITAT

There is **final** critical habitat designated for this species.

https://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=E070

Steelhead *Oncorhynchus* (=Salmo) mykiss Threatened

CRITICAL HABITAT

There is **final** critical habitat designated for this species.

https://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=E08D

Flowering Plants

Sacramento Orcutt Grass *Orcuttia viscida* Endangered

CRITICAL HABITAT

There is **final** critical habitat designated for this species.

https://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=Q1ZQ

Slender Orcutt Grass *Orcuttia tenuis* Threatened

CRITICAL HABITAT

There is **final** critical habitat designated for this species.

https://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=Q1AZ

Insects

Valley Elderberry Longhorn Beetle *Desmocerus californicus dimorphus* Threatened

CRITICAL HABITAT

There is **final** critical habitat designated for this species.

https://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=I01L

Reptiles

Giant Garter Snake *Thamnophis gigas* Threatened

CRITICAL HABITAT

No critical habitat has been designated for this species.

https://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=C057

Critical Habitats

There are no critical habitats in this location

Migratory Birds

Birds are protected by the [Migratory Bird Treaty Act](#) and the [Bald and Golden Eagle Protection Act](#).

Any activity which results in the take of migratory birds or eagles is prohibited unless authorized by the U.S. Fish and Wildlife Service (1). There are no provisions for allowing the take of migratory birds that are unintentionally killed or injured.

Any person or organization who plans or conducts activities that may result in the take of migratory birds is responsible for complying with the appropriate regulations and implementing appropriate conservation measures.

Additional information can be found using the following links:

- Birds of Conservation Concern
<http://www.fws.gov/birds/management/managed-species/birds-of-conservation-concern.php>
- Conservation measures for birds
<http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/conservation-measures.php>
- Year-round bird occurrence data
<http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/akn-histogram-tools.php>

The following species of migratory birds could potentially be affected by activities in this location:

Bald Eagle <i>Haliaeetus leucocephalus</i>	Bird of conservation concern
Year-round https://ecos.fws.gov/tess_public/profile/speciesProfile.action?sPCODE=B008	
Black Rail <i>Laterallus jamaicensis</i>	Bird of conservation concern
Season: Breeding https://ecos.fws.gov/tess_public/profile/speciesProfile.action?sPCODE=B09A	
Burrowing Owl <i>Athene cunicularia</i>	Bird of conservation concern
Year-round https://ecos.fws.gov/tess_public/profile/speciesProfile.action?sPCODE=B0NC	
Fox Sparrow <i>Passerella iliaca</i>	Bird of conservation concern
Season: Wintering	
Least Bittern <i>Ixobrychus exilis</i>	Bird of conservation concern
Season: Breeding	
Lesser Yellowlegs <i>Tringa flavipes</i>	Bird of conservation concern
Season: Wintering https://ecos.fws.gov/tess_public/profile/speciesProfile.action?sPCODE=B0MD	
Lewis's Woodpecker <i>Melanerpes lewis</i>	Bird of conservation concern
Season: Wintering https://ecos.fws.gov/tess_public/profile/speciesProfile.action?sPCODE=B0HQ	

Loggerhead Shrike <i>Lanius ludovicianus</i>	Bird of conservation concern
Year-round https://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0FY	
Long-billed Curlew <i>Numenius americanus</i>	Bird of conservation concern
Season: Wintering https://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B06S	
Marbled Godwit <i>Limosa fedoa</i>	Bird of conservation concern
Season: Wintering https://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0JL	
Mountain Plover <i>Charadrius montanus</i>	Bird of conservation concern
Season: Wintering https://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B078	
Nuttall's Woodpecker <i>Picoides nuttallii</i>	Bird of conservation concern
Year-round https://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0HT	
Oak Titmouse <i>Baeolophus inornatus</i>	Bird of conservation concern
Year-round https://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0MJ	
Peregrine Falcon <i>Falco peregrinus</i>	Bird of conservation concern
Season: Wintering https://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0FU	
Short-eared Owl <i>Asio flammeus</i>	Bird of conservation concern
Season: Wintering https://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0HD	
Swainson's Hawk <i>Buteo swainsoni</i>	Bird of conservation concern
Season: Breeding https://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B070	
Tricolored Blackbird <i>Agelaius tricolor</i>	Bird of conservation concern
Year-round https://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B06P	
Western Grebe <i>aechmophorus occidentalis</i>	Bird of conservation concern
Year-round https://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0EA	
Williamson's Sapsucker <i>Sphyrapicus thyroideus</i>	Bird of conservation concern
Year-round https://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0FX	
Yellow-billed Magpie <i>Pica nuttalli</i>	Bird of conservation concern
Year-round https://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0N8	

Refuges

Any activity proposed on [National Wildlife Refuge](#) lands must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

There are no refuges in this location

Wetlands in the National Wetlands Inventory

Impacts to [NWI wetlands](#) and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal Statutes.

For more information please contact the Regulatory Program of the local [U.S. Army Corps of Engineers District](#).

DATA LIMITATIONS

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

DATA EXCLUSIONS

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tubercid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

DATA PRECAUTIONS

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

There are no wetlands in this location

Attachment B



Selected Elements by Scientific Name

California Department of Fish and Wildlife

California Natural Diversity Database



Query Criteria: Taxonomic Group IS (Dune OR Scrub OR Herbaceous OR Marsh OR Riparian OR Woodland OR Forest OR Alpine OR Inland Waters OR Marine OR Estuarine OR Riverine OR Palustrine OR Fish OR Amphibians OR Reptiles OR Birds OR Mammals OR Mollusks OR Arachnids OR Crustaceans OR Insects OR Ferns OR Gymnosperms OR Monocots OR Dicots OR Lichens OR Bryophytes OR Fungi AND County IS (Sacramento)
AND Quad IS (Bruceville (3812134) OR Buffalo Creek (3812152) OR Carmichael (3812153) OR Clay (3812132) OR Elk Grove (3812143) OR Florin (3812144) OR Galt (3812133) OR Sacramento East (3812154) OR Sloughhouse (3812142))

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<i>Accipiter cooperii</i> Cooper's hawk	ABNKC12040	None	None	G5	S4	WL
<i>Agelaius tricolor</i> tricolored blackbird	ABPBXB0020	None	None	G2G3	S1S2	SSC
<i>Ambystoma californiense</i> California tiger salamander	AAAAA01180	Threatened	Threatened	G2G3	S2S3	WL
<i>Andrena blennospermatis</i> Blennosperma vernal pool andrenid bee	IIHYM35030	None	None	G2	S2	
<i>Aquila chrysaetos</i> golden eagle	ABNKC22010	None	None	G5	S3	FP
<i>Ardea alba</i> great egret	ABNGA04040	None	None	G5	S4	
<i>Ardea herodias</i> great blue heron	ABNGA04010	None	None	G5	S4	
<i>Athene cunicularia</i> burrowing owl	ABNSB10010	None	None	G4	S3	SSC
<i>Branchinecta lynchi</i> vernal pool fairy shrimp	ICBRA03030	Threatened	None	G3	S3	
<i>Branchinecta mesoavallensis</i> midvalley fairy shrimp	ICBRA03150	None	None	G2	S2S3	
<i>Brasenia schreberi</i> watershield	PDCAB01010	None	None	G5	S3	2B.3
<i>Buteo regalis</i> ferruginous hawk	ABNKC19120	None	None	G4	S3S4	WL
<i>Buteo swainsoni</i> Swainson's hawk	ABNKC19070	None	Threatened	G5	S3	
<i>Carex comosa</i> bristly sedge	PMCYP032Y0	None	None	G5	S2	2B.1
<i>Cicuta maculata</i> var. <i>bolanderi</i> Bolander's water-hemlock	PDAP10M051	None	None	G5T4	S2	2B.1



Selected Elements by Scientific Name
California Department of Fish and Wildlife
California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Coastal and Valley Freshwater Marsh Coastal and Valley Freshwater Marsh	CTT52410CA	None	None	G3	S2.1	
Coccyzus americanus occidentalis western yellow-billed cuckoo	ABNRB02022	Threatened	Endangered	G5T2T3	S1	
Cuscuta obtusiflora var. glandulosa Peruvian dodder	PDCUS01111	None	None	G5T4T5	SH	2B.2
Desmocerus californicus dimorphus valley elderberry longhorn beetle	IICOL48011	Threatened	None	G3T2	S2	
Downingia pusilla dwarf downingia	PDCAM060C0	None	None	GU	S2	2B.2
Dumontia oregonensis hairy water flea	ICBRA23010	None	None	G1G3	S1	
Elanus leucurus white-tailed kite	ABNKC06010	None	None	G5	S3S4	FP
Elderberry Savanna Elderberry Savanna	CTT63440CA	None	None	G2	S2.1	
Emys marmorata western pond turtle	ARAAD02030	None	None	G3G4	S3	SSC
Falco columbarius merlin	ABNKD06030	None	None	G5	S3S4	WL
Gratiola heterosepala Boggs Lake hedge-hyssop	PDSCR0R060	None	Endangered	G2	S2	1B.2
Great Valley Mixed Riparian Forest Great Valley Mixed Riparian Forest	CTT61420CA	None	None	G2	S2.2	
Great Valley Valley Oak Riparian Forest Great Valley Valley Oak Riparian Forest	CTT61430CA	None	None	G1	S1.1	
Hibiscus lasiocarpus var. occidentalis woolly rose-mallow	PDMAL0H0R3	None	None	G5T2	S2	1B.2
Hydrochara rickseckeri Ricksecker's water scavenger beetle	IICOL5V010	None	None	G2?	S2?	
Juglans hindsii Northern California black walnut	PDJUG02040	None	None	G1	S1	1B.1
Juncus leiospermus var. ahartii Ahart's dwarf rush	PMJUN011L1	None	None	G2T1	S1	1B.2
Lathyrus jepsonii var. jepsonii Delta tule pea	PDFAB250D2	None	None	G5T2	S2	1B.2
Legenere limosa legenere	PDCAM0C010	None	None	G2	S2	1B.1
Lepidium latipes var. heckardii Heckard's pepper-grass	PDBRA1M0K1	None	None	G4T2	S2	1B.2
Lepidurus packardii vernal pool tadpole shrimp	ICBRA10010	Endangered	None	G4	S3S4	



Selected Elements by Scientific Name
California Department of Fish and Wildlife
California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<i>Lilaeopsis masonii</i> Mason's lilaeopsis	PDAPI19030	None	Rare	G2	S2	1B.1
<i>Limosella australis</i> Delta mudwort	PDSCR10050	None	None	G4G5	S2	2B.1
<i>Linderiella occidentalis</i> California linderiella	ICBRA06010	None	None	G2G3	S2S3	
<i>Melospiza melodia</i> song sparrow ("Modesto" population)	ABPBXA3010	None	None	G5	S3?	SSC
<i>Northern Hardpan Vernal Pool</i> Northern Hardpan Vernal Pool	CTT44110CA	None	None	G3	S3.1	
<i>Nycticorax nycticorax</i> black-crowned night heron	ABNGA11010	None	None	G5	S4	
<i>Oncorhynchus mykiss irideus</i> steelhead - Central Valley DPS	AFCHA0209K	Threatened	None	G5T2Q	S2	
<i>Orcuttia tenuis</i> slender Orcutt grass	PMPOA4G050	Threatened	Endangered	G2	S2	1B.1
<i>Orcuttia viscida</i> Sacramento Orcutt grass	PMPOA4G070	Endangered	Endangered	G1	S1	1B.1
<i>Phalacrocorax auritus</i> double-crested cormorant	ABNFD01020	None	None	G5	S4	WL
<i>Pogonichthys macrolepidotus</i> Sacramento splittail	AFCJB34020	None	None	GNR	S3	SSC
<i>Progne subis</i> purple martin	ABPAU01010	None	None	G5	S3	SSC
<i>Riparia riparia</i> bank swallow	ABPAU08010	None	Threatened	G5	S2	
<i>Sagittaria sanfordii</i> Sanford's arrowhead	PMALI040Q0	None	None	G3	S3	1B.2
<i>Scutellaria galericulata</i> marsh skullcap	PDLAM1U0J0	None	None	G5	S2	2B.2
<i>Scutellaria lateriflora</i> side-flowering skullcap	PDLAM1U0Q0	None	None	G5	S2	2B.2
<i>Spea hammondi</i> western spadefoot	AAABF02020	None	None	G3	S3	SSC
<i>Spirinchus thaleichthys</i> longfin smelt	AFCHB03010	Candidate	Threatened	G5	S1	SSC
<i>Taxidea taxus</i> American badger	AMAJF04010	None	None	G5	S3	SSC
<i>Thamnophis gigas</i> giant gartersnake	ARADB36150	Threatened	Threatened	G2	S2	
<i>Trifolium hydrophilum</i> saline clover	PDFAB400R5	None	None	G2	S2	1B.2



Selected Elements by Scientific Name
California Department of Fish and Wildlife
California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Valley Oak Woodland Valley Oak Woodland	CTT71130CA	None	None	G3	S2.1	
Xanthocephalus xanthocephalus yellow-headed blackbird	ABPBXB3010	None	None	G5	S3	SSC

Record Count: 59

Attachment C

Attachment C. California Native Plant Society (CNPS), query updated April 12, 2016, of state and federally listed special-status plant species known to occur within a nine quadrangle radius of the project site

Scientific Name	Common Name	Family	Lifeform	Rare Plant Rank	State Rank	Global Rank	CESA	FESA	Elevation High (meters)	Elevation Low (meters)	CA Endemic
<i>Brasenia schreberi</i>	watershield	<i>Cabombaceae</i>	perennial rhizomatous herb	2B.3	S3	G5	None	None	2200	30	F
<i>Carex comosa</i>	bristly sedge	<i>Cyperaceae</i>	perennial rhizomatous herb	2B.1	S2	G5	None	None	625	0	F
<i>Centromadia parryi</i> ssp. <i>rudis</i>	Parry's rough tarplant	<i>Asteraceae</i>	annual herb	4.2	S3	G3T3	None	None	100	0	T
<i>Cicuta maculata</i> var. <i>bolanderi</i>	Bolander's water-hemlock	<i>Apiaceae</i>	perennial herb	2B.1	S2	G5T4	None	None	200	0	F
<i>Cuscuta obtusiflora</i> var. <i>glandulosa</i>	Peruvian dodder	<i>Convolvulaceae</i>	annual vine (parasitic)	2B.2	SH	G5T4T5	None	None	280	15	F
<i>Downingia pusilla</i>	dwarf downingia	<i>Campanulaceae</i>	annual herb	2B.2	S2	GU	None	None	445	1	F
<i>Gratiola heterosepala</i>	Boggs Lake hedge-hyssop	<i>Plantaginaceae</i>	annual herb	1B.2	S2	G2	CE	None	2375	10	F
<i>Hesperevax caulescens</i>	hogwallow starfish	<i>Asteraceae</i>	annual herb	4.2	S3	G3	None	None	505	0	T
<i>Hibiscus lasiocarpus</i> var. <i>occidentalis</i>	woolly rose-mallow	<i>Malvaceae</i>	perennial rhizomatous herb	1B.2	S2	G5T2	None	None	120	0	T
<i>Juglans hindsii</i>	Northern California black walnut	<i>Juglandaceae</i>	perennial deciduous tree	1B.1	S1	G1	None	None	440	0	T
<i>Juncus leiospermus</i> var. <i>ahartii</i>	Ahart's dwarf rush	<i>Juncaceae</i>	annual herb	1B.2	S1	G2T1	None	None	229	30	T
<i>Lasthenia ferrisiae</i>	Ferris' goldfields	<i>Asteraceae</i>	annual herb	4.2	S3	G3	None	None	700	20	T
<i>Lathyrus jepsonii</i> var. <i>jepsonii</i>	Delta tule pea	<i>Fabaceae</i>	perennial herb	1B.2	S2	G5T2	None	None	5	0	T
<i>Legenere limosa</i>	legenere	<i>Campanulaceae</i>	annual herb	1B.1	S2	G2	None	None	880	1	T
<i>Lepidium latipes</i> var. <i>heckardii</i>	Heckard's pepper-grass	<i>Brassicaceae</i>	annual herb	1B.2	S2	G4T2	None	None	200	2	T
<i>Lilaeopsis masonii</i>	Mason's lilaeopsis	<i>Apiaceae</i>	perennial rhizomatous herb	1B.1	S2	G2	CR	None	10	0	T
<i>Limosella australis</i>	Delta mudwort	<i>Scrophulariaceae</i>	perennial stoloniferous herb	2B.1	S2	G4G5	None	None	3	0	F
<i>Navarretia eriocephala</i>	hoary navarretia	<i>Polemoniaceae</i>	annual herb	4.3	S4	G4	None	None	400	105	T
<i>Orcuttia tenuis</i>	slender Orcutt grass	<i>Poaceae</i>	annual herb	1B.1	S2	G2	CE	FT	1760	35	T
<i>Orcuttia viscida</i>	Sacramento Orcutt grass	<i>Poaceae</i>	annual herb	1B.1	S1	G1	CE	FE	100	30	T
<i>Sagittaria sanfordii</i>	Sanford's arrowhead	<i>Alismataceae</i>	perennial rhizomatous herb	1B.2	S3	G3	None	None	650	0	T
<i>Scutellaria galericulata</i>	marsh skullcap	<i>Lamiaceae</i>	perennial rhizomatous herb	2B.2	S2	G5	None	None	2100	0	F

Attachment C. California Native Plant Society (CNPS), query updated April 12, 2016, of state and federally listed special-status plant species known to occur within a nine quadrangle radius of the project site

Scientific Name	Common Name	Family	Lifeform	Rare Plant Rank	State Rank	Global Rank	CESA	FESA	Elevation High (meters)	Elevation Low (meters)	CA Endemic
<i>Scutellaria lateriflora</i>	side-flowering skullcap	<i>Lamiaceae</i>	perennial rhizomatous herb	2B.2	S2	G5	None	None	500	0	F
<i>Trifolium hydrophilum</i>	saline clover	<i>Fabaceae</i>	annual herb	1B.2	S2	G2	None	None	300	0	T

Attachment D

ATTACHEMENT D
POTENTIALLY OCCURRING SPECIAL-STATUS SPECIES

SCIENTIFIC NAME COMMON NAME	FEDERAL/ STATE/ CNPS- OTHER STATUS	DISTRIBUTION	HABITAT REQUIREMENTS	PERIOD OF IDENTIFICATION	POTENTIAL TO OCCUR ON-SITE
Plants					
<i>Gratiola heterosepala</i> Boggs Lake hedge- hyssop	--/CE/1B.2	Known to occur in Fresno, Lake, Lassen, Madera, Merced, Modoc, Placer, Sacramento, Shasta, Siskiyou, San Joaquin, Solano, Sonoma, and Tehama counties in CA and in Oregon.	Annual herb found on clay soils in vernal pools and along the lake margins of marshes and swamps from 10 to 2,375 meters.	April-August	No. Suitable habitat for this species does not occur within the project site.
<i>Lilaeopsis masonii</i> Mason's lilaeopsis	--/CR/1B.1	Known to occur in Alameda, Contra Costa, Marin, Napa, Sacramento, San Joaquin, Solano, and Yolo counties.	Found in marshes and swamps (brackish or freshwater), and riparian scrub. Elevations range from 0-10 meters.	April-November	No. Suitable habitat for this species does not occur within the project site.
<i>Orcuttia tenuis</i> Slender Orcutt grass	FT/CE/1B.1	Known from Butte, Lake, Lassen, Modoc, Plumas, Sacramento, Shasta, Siskiyou, and Tehama counties.	Annual herb found in gravelly vernal pools from 35 to 1760 meters.	May-October	No. Suitable habitat for this species does not occur within the project site.
<i>Orcuttia viscida</i> Sacramento Orcutt grass	FE/CE/1B	Known from Sacramento County (CNPS, 2010).	Vernal pools from 30-100 meters (CNPS, 2010).	April-September	No. Suitable habitat for this species does not occur within the project site.
Amphibians					
<i>Ambystoma californiense</i> California tiger salamander	FT/CT,CSC/--	Western California from Sonoma County in the north to Santa Barbara County in the south.	Breeds in vernal pools and ponds of grassland and open woodland of low hills and valleys. Will utilize burrows for refuge.	November-February (adults) March 15-May15 (larvae)	No. Suitable habitat for this species does not occur within the project site.
<i>Rana draytonii</i> California red-legged frog	FT/CSC/--	Known to occur along the Coast from Mendocino County to Baja California, and inland through the northern Sacramento Valley into the foothills of the Sierra Nevada mountains, south to eastern Tulare County, and possibly eastern Kern County. Currently accepted range excludes the Central Valley.	Occurs in permanent and temporary pools of streams, marshes, and ponds with dense grassy and/or shrubby vegetation. Elevations: 0-1,160 m.	November-June	No. Suitable habitat for this species does not occur within the project site.
Birds					

SCIENTIFIC NAME COMMON NAME	FEDERAL/ STATE/ CNPS- OTHER STATUS	DISTRIBUTION	HABITAT REQUIREMENTS	PERIOD OF IDENTIFICATION	POTENTIAL TO OCCUR ON-SITE
<i>Buteo swainsoni</i> Swainson's hawk	--/CT/--	In California, breeds in the Central Valley, Klamath Basin, Northeastern Plateau, Lassen County, and Mojave Desert. Very limited breeding reported from Lanfair Valley, Owens Valley, Fish Lake Valley, Antelope Valley, and in eastern San Luis Obispo County.	Breeds in stands with few trees in juniper-sage flats, riparian areas, and in oak savannah. Requires adjacent suitable foraging areas such as grasslands, alfalfa, or grain fields supporting rodent populations.	March – October	No. Suitable habitat for this species does not occur within the project site.
<i>Coccyzus americanus occidentalis</i> Western yellow-billed cuckoo	FT/CE/--	In California, breeding populations of greater than five pairs which persist every year in California are currently limited to the Sacramento River from Red Bluff to Colusa and the South Fork Kern River from Isabella Reservoir to Canebrake Ecological Reserve.	Western yellow-billed cuckoos prefer isolated wooded riparian corridors surrounded by extensive arid uplands.	May - October	No. Suitable habitat for this species does not occur within the project site.

Fishes					
<i>Hypomesus transpacificus</i> Delta smelt	FT/CT/--	Occurs almost exclusively in the Sacramento-San Joaquin estuary, from the Suisun Bay upstream through the Delta in Contra Costa, Sacramento, San Joaquin, Solano, and Yolo counties. May also occur in the San Francisco Bay.	Estuarine waters. Majority of life span is spent within the freshwater outskirts of the mixing zone (saltwater-freshwater interface) within the Delta.	Consult Agency	No. Suitable habitat for this species does not occur within the project site.
<i>Oncorhynchus</i> (=Salmo) <i>mykiss</i> Steelhead, Central California Coast Distinct Population Segment (DPS)	FT/--/--	Spawn in the Sacramento and San Joaquin rivers and tributaries before migrating to the Delta and Bay Area.	Found in cool, clear, fast-flowing permanent streams and rivers with riffles and ample cover from riparian vegetation or overhanging banks. Spawning: streams with pool and riffle complexes. For successful breeding, require cold water and gravelly streambed.	Consult Agency	No. Suitable habitat for this species does not occur within the project site.
<i>Spirinchus thaleichthys</i> Longfin smelt, Bay-Delta DPS	FC/CT, CSC/--	Range in California includes: Slightly upstream from Rio Vista (on the Sacramento River in the Delta) including the Cache Slough region and Medford Island (on the San Joaquin River in the Delta) through Suisun Bay and Suisun Marsh, San Pablo Bay, San Francisco Bay (main), South San Francisco Bay, The Gulf of the Farallones, just outside of the Golden Gate, Humboldt Bay, and Eel river estuary and local coastal areas	Found in open waters of estuaries, mostly in middle or bottom of water column. Prefer salinities of 15-30 ppt, but can be found in completely freshwater to almost pure seawater.	Consult Agency	No. Suitable habitat for this species does not occur within the project site.
Invertebrates					

SCIENTIFIC NAME COMMON NAME	FEDERAL/ STATE/ CNPS- OTHER STATUS	DISTRIBUTION	HABITAT REQUIREMENTS	PERIOD OF IDENTIFICATION	POTENTIAL TO OCCUR ON-SITE
<i>Branchinecta lynchi</i> Vernal pool fairy shrimp	FT/--/--	Vernal pool fairy shrimp are known from a total of 32 populations located in an area extending from Shasta County through most of the length of the Central Valley to Tulare County, and along the central coast range from northern Solano County to Pinnacles in San Benito County. Five additional, disjunctive populations exist near Soda Lake in San Luis Obispo County, in the mountain grasslands of northern Santa Barbara County, on the Santa Rosa Plateau in Riverside County, near Rancho California in Riverside County.	Vernal pools in the Central Valley, coast ranges, and a limited number of sites in the Transverse Ranges and Riverside County, California.	December-May	No. Suitable habitat for this species does not occur within the project site.
<i>Lepidurus packardii</i> Vernal pool tadpole shrimp	FE/--/--	Known from 18 populations in the Central Valley, ranging from east of Redding in Shasta County south to the San Luis National Wildlife Refuge in Merced County, also from a single vernal pool complex on the San Francisco Bay National Wildlife Refuge in the City of Fremont.	Life cycle within vernal pools and valley foothill grassland swales.	December-May	No. Suitable habitat for this species does not occur within the project site.
<i>Desmocerus californicus dimorpha</i> Valley elderberry longhorn beetle (VELB)	FT/--/--	Restricted to the Central Valley from Redding to Bakersfield. Counties include Amador, Butte, Calaveras, Colusa, El Dorado, Fresno, Glenn, Kern, Madera, Mariposa, Merced, Napa, Placer, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Yolo, and Yuba counties; 0-762 meters elevation.	Riparian forest communities. Exclusive host plant is elderberry (<i>Sambucus</i> species), which must have stems \geq 1-inch diameter for the beetle.	Year-round	No. Suitable habitat for this species does not occur within the project site.
Mammals					
Reptiles					

SCIENTIFIC NAME COMMON NAME	FEDERAL/ STATE/ CNPS- OTHER STATUS	DISTRIBUTION	HABITAT REQUIREMENTS	PERIOD OF IDENTIFICATION	POTENTIAL TO OCCUR ON-SITE
<i>Thamnophis gigas</i> Giant garter snake	FT/CT/--	Endemic to the San Joaquin and Sacramento Valley floors. Counties include Butte, Colusa, Contra Costa, Fresno, Glenn, Kern, Madera, Merced, Sacramento, San Joaquin, Solano, Sutter, Yolo, and Yuba.	Inhabits agricultural wetlands and other waterways such as irrigation and drainage canals, sloughs, ponds, small lakes, low gradient streams, and adjacent uplands. Requires adequate water during its active season (early spring through mid-fall) to provide food and cover, emergent, herbaceous wetland vegetation for foraging and cover, grassy banks and openings in waterside vegetation for basking, and higher elevation uplands for cover and refuge from flood waters during its dormant season (winter). Inhabits small mammal burrows and other soil crevices with sunny exposure along south and west facing slopes, above prevailing flood elevations when dormant.	March-October	No. Suitable habitat for this species does not occur within the project site.

STATUS CODES

FEDERAL: United States Fish and Wildlife Service

FE Federally Endangered

FT Federally Threatened

FC Federal Candidate for Listing as Endangered or Threatened

STATE: California Department of Fish and Wildlife

CE California Listed Endangered

CR California Listed Rare

CT California Listed Threatened

CSC California Species of Special Concern

FP California Fully Protected Species

CNPS: California Native Plant Society

List 1A Plants Presumed Extinct in California

List 1B Plants Rare, Threatened, or Endangered in California and Elsewhere

List 2 Plants Rare, Threatened, or Endangered in California, But More Common Elsewhere

List 3 Plants About Which We Need More Information- A Review List

SOURCE: USFWS, 2015; CDFW, 2015; CNPS, 2015.